REPLACEMENT SHEET 1/9

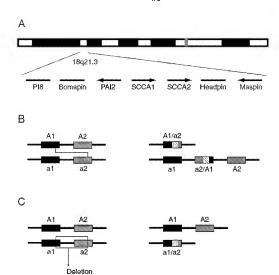


Fig. 1A-C

REPLACEMENT SHEET

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SCCA1 11-ATGAATTCAC TCAGTGAAGC CAACACCAAG TTCATGTTCG ACCTGTTCCA ACAGTTCAGA SCCA2 11-ATGAATTCAC TCAGTGAAGC CAACACCAAG TTCATGTTCG ATCTGTTCCA ACAGTTCAGA AAATCAAAAG AGAACAACAT CTTCTATTCC CCTATCAGCA TCACATCAGC ATTAGGGATG AAATCAAAAG AGAACAACAT CTTCTATTCC CCTATCAGCA TCACATCAGC ATTAGGGATG GTCCTCTTAG GAGCCAAAGA CAACACTGCA CAACAGATTA AGAAG -12- GTTCT TCACTTTGAT GTCCTCTTAG GAGCCAAAGA CAACACTGCA CAACAAATTA GCAAG -12- GTTCT TCACTTTGAT CAAGTCACAG AGAACACCAC AG \mathbf{G} AAAAGCT GCAACATATC AT -13- GTTGATAG GTCAGGAAAT CAAGTCACAG AGAACACCAC AGAAAAAGCT GCAACATATC AT -13- GTTGATAG GTCAGGAAAT GTTCATCACC AGTTTCAAAA GCTTCTGACT GAATTCAACA AATCCACTGA TGCATATGAG GTTCATCACC AGTTTCAAAA GCTTCTGACT GAATTCAACA AATCCACTGA TGCATATGAG CTGAAGATCG CCAACAAGCT CTTCGGAGAA AAACGTATC TATTTTTACA G -14- GAATATTTA CTGAAGATCG CCAACAAGCT CTTCGGAGAA AAGACGTATC AATTTTTACA G -14- GAATATTTA GATGCCATCA AGAAATTTTA CCAGACCAGT GTGGAATCTG TTGATTTTGC AAATGCTCCA GATGCCATCA AGAAATTTTA CCAGACCAGT GTGGAATCTA CTGATTTTGC AAATGCTCCA GAAGAAGTC GAAAGAAGAT TAACTCCTGG GTGGAAAGTC AAACGAATG -15- AAAAAATTAAA GAAGAAGTC GAAAGAAGAT TAACTCCTGG GTGGAAAGTC AAACGAATG -15- AAAAAATTAAA AACCTAATTC CTGAAGGTAA TATTGGCAGC AATACCACAT TGGTTCTTGT GAACGCAATC AACCTATTTC CTGATGGGAC TATTGGCAAT GATACGACAC TGGTTCTTGT GAACGCAATC TATTCAAAG GGCAGTGGGA GAAGAATTT AATAAAGAAG ATACTAAAGA GGAAAAATTT TATTTCAAAG GGCAGTGGGA GAATAAATTT AAAAAAGAAA ACACTAAAGA GGAAAAATTT TGGCCAAACA AG -16- AATACATA CAAGTCCATA CAGATGATGA GGCAATACAC ATCTTTTCAT TGGCCAAACA AG -I6- AATACATA CAAATCTGTA CAGATGATGA GGCAATACAA TTCCTTTAAT TTTGCCTCGC TGGAGGATGT ACAGGCCAAG GTCCTGGAAA TACCATACAA AGGCAAAGAT TTTGCCT \mathbf{T} GC TGGAGGATGT ACAGGCCAAG GTCCTGGAAA TACCATACAA AGGCAAAGAT CTAAGCATGA TTGTGTTGCT GCCAAATGAA ATCGATGGTC TCCAGAAG -I7- CT TGAAGAGAAA CTAAGCATGA TTGTGCTGCT GCCAAATGAA ATCGATGGTC TGCAGAAG -I7- CT TGAAGAGAAA CTCACTGCTG AGAAATTGAT GGAATGGACA AGTTTGCAGA ATATGAGAGA GACACGTGTC CTCACTGCTG AGAAATTGAT GGAATGGACA AGTTTGCAGA ATATGAGAGA GACATGTGTC GATTTACACT TACCTCGGTT CAAAGTGGAA GAGAGCTATG ACCTCAAGGA CACGTTGAGA GATTTACACT TACCTCGGTT CAAAATGGAA GAGAGCTATG ACCTCAAGGA CACGTTGAGA ACCATGGGAA TGGTGGATAT CTTCAATGGG GATGCAGACC TCTCAGGCAT GACCGGGAGC ACCATGGGAA TGGTGAATAT CTTCAATGGG GATGCAGACC TCTCAGGCAT GACCTGGAGC CGCGGTCTCG TGCTATCTGG AGTCCTACAC AAGGCCTTTG TGGAGGTTAC Agaggaggga CACGGTCTCT CAGTATCTAA AGTCCTACAC AAGGCCTTTG TGGAGGTCAC Tgaggagga qCaqaaqctq caqctqccac cqctqtaqta qGattcqGat CatcaCctac ttcaactAAT qtqqaaqctq caqctqccac cqctqtaqta qtaqtcqaat tatcatctc ttcaactAAT GAAGAGTTCC ATTGTAATCA CCCTTTCCTA TTCTTCATAA GGCAAAATAA GACCAACAGC GAAGAGTTCT GTTGTAATCA CCCTTTCCTA TTCTTCATAA GGCAAAATAA GACCAACAGC ATCCTCTTCT ATGGCAGATT CTCATCCCCG TAG ATCCTCTTCT ATGGCAGATT CTCATCCCCA TAG

REPLACEMENT SHEET

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SCCA1 MNSLSEANTK FMFDLFQQFR KSKENNIFYS PISITSALGM VLLGAKDNTA SCCA2 MNSLSEANTK FMFDLFQQFR KSKENNIFYS PISITSALGM VLLGAKDNTA

QQI<u>K</u>İKVLHFD QVTENTT<u>G</u>KA ATYİHVDRSGN VHHQFQKLLT EFNKSTDAYE QQI<u>Ş</u>İKVLHFD QVTENTT<u>E</u>KA ATY<u>İ</u>HVDRSGN VHHQFQKLLT EFNKSTDAYE

LKIANKLFGE KTYLFLQ EYL DAIKKFYQTS VESYDFANAP EESRKKINSW LKIANKLFGE KTYQFLQ EYL DAIKKFYQTS VESTDFANAP EESRKKINSW

 $\begin{array}{l} \text{VESQTN}_1^! \text{EKIK NL}_! \underline{\text{PEGN}} | \underline{\text{S}}_! \underline{\text{NTTLVLVNAI}} \text{ YFKGQWE} \underline{\text{KKF}}_! \underline{\text{NKE}} \underline{\text{D}} \text{TKEEKF} \\ \text{VESQTN} ! \text{EKIK NL}_! \underline{\text{PP}} \underline{\text{G}} \underline{\text{T}} | \underline{\text{N}}_! \underline{\text{D}} \underline{\text{TTLVLVNAI}} \text{ YFKGQWE} \underline{\text{NKF}}_! \underline{\text{KKE}} \underline{\text{NTKEEKF}} \\ \end{array}$

WPNK NTYKSI QMMRQYISFH FASLEDVQAK VLEIPYKGKD LSMIVLLPNE WPNK NTYKSY QMMRQYNSFN FALLEDVQAK VLEIPYKGKD LSMIVLLPNE

 $\begin{array}{l} \mathsf{IDGLQ}^{\mathsf{I}}\mathsf{KLEEK} \ \mathsf{LTAEKLMEWT} \ \mathsf{SLQNMRET}\underline{\mathsf{R}}\mathsf{V} \ \mathsf{DLHLPRFK}\underline{\mathsf{V}}\mathsf{E} \ \mathsf{ESYDLKDTLR} \\ \mathsf{IDGLQ}^{\mathsf{I}}\mathsf{KLEEK} \ \mathsf{LTAEKLMEWT} \ \mathsf{SLQNMRET}\underline{\mathsf{C}}\mathsf{V} \ \mathsf{DLHLPRFK}\underline{\mathsf{M}}\mathsf{E} \ \mathsf{ESYDLKDTLR} \\ \end{array}$

 $\begin{array}{l} {\rm TMGMV}\underline{{\rm D}}{\rm IFNG} \ {\rm DADLSGMT}\underline{{\rm GS}} \ \underline{{\rm RGLVLSG}}{\rm VLH} \ {\rm KAFVEVT}\underline{{\rm EGG}} \ \underline{{\rm MEAAAA}} \ \ {\rm TMGMV}\underline{{\rm NI}}{\rm IFNG} \ {\rm DADLSGMT}\underline{{\rm WS}} \ \underline{{\rm HGLSVS}}\underline{{\rm KVLH}} \ {\rm KAFVEVT}\underline{{\rm EGG}} \ \underline{{\rm VEAAAA}} \ \ {\rm TAVV} \end{array}$

 $\underline{GFGS}SPAST$ N EEF \underline{H} CNHPFL FFIRQNKTNS ILFYGRFSSP $\underline{VVEL}SSP$ ST N EEF \underline{C} CNHPFL FFIRQNKTNS ILFYGRFSSP

REPLACEMENT SHEET

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SCCA1/A2 cDNA SEQUENCE

-II - ATGAATTCAC TCAGTGAAGC CAACACCAAG TTCATGTTCG ACCTGTTCCA ACAGTTCAGA AAATCAAAAG AGAACAACAT CTTCTATTCC CCTATCAGCA TCACATCAGC ATTAGGGATG GTCCTCTTAG GAGCCAAAGA CAACACTGCA CAACAGATTA AGAAG -12- GTTCT TCACTTTGAT CAAGTCACAG AGAACACCAC AGGAAAAGCT GCAACATATC AT -I3- GTTGATAG GTCAGGAAAT GTTCATCACC AGTTTCAAAA GCTTCTGACT GAATTCAACA AATCCACTGA TGCATATGAG CTGAAGATCG CCAACAAGCT CTTCGGAGAA AAAACGTATC TATTTTTACA G -14- GAATATTTA GATGCCATCA AGAAATTTTA CCAGACCAGT GTGGAATCTG TTGATTTTGC AAATGCTCCA GAAGAAGTC GAAAGAAGAT TAACTCCTGG GTGGAAAGTC AAACGAATG -I5- A AAAAATTAAA AACCTAATTC CTGAAGGTAA TATTGGCAGC AATACCACAT TGGTTCTTGT GAACGCAATC TATTTCAAAG GGCAGTGGGA GAAGAAATTT AATAAAGAAG ATACTAAAGA GGAAAAATTT TGGCCAAACA AG -16- AATACATA CAAGTCCATA CAGATGATGA GGCAATACAC ATCTTTTCAT TTTGCCTCGC TGGAGGATGT ACAGGCCAAG GTCCTGGAAA TACCATACAA AGGCAAAGAT CTAAGCATGA TTGTGTTGCT GCCAAATGAA ATCGATGGTC TCCAGAAG -I7- CT TGAAGAGAAA CTCACTGCTG AGAAATTGAT GGAATGGACA AGTTTGCAGA ATATGAGAGA GACATGTGTC GATTTACACT TACCTCGGTT CAAAATGGAA GAGAGCTATG ACCTCAAGGA CACGTTGAGA ACCATGGGAA TGGTGAATAT CTTCAATGGG GATGCAGACC TCTCAGGCAT GACCTGGAGC CACGGTCTCT CAGTATCTAA AGTCCTACAC AAGGCCTTTG TGGAGGTCAC Tgaggaggga gtggaagetg cagetgecae egetgtagta gtagtegaat tateatetee tteaactAAT GAAGAGTTCT GTTGTAATCA CCCTTTCCTA TTCTTCATAA GGCAAAATAA GACCAACAGC ATCCTCTTCT ATGGCAGATT CTCATCCCCA TAG

REPLACEMENT SHEET 5/9

SCCA1A2 amino acid sequence

MNSLSEANTK FMFDLFQQFR KSKENNIFYS PISITSALGM VLLGAKDNTA
QQIKİ KVLHFD QVTENTT<u>G</u>KA ATY HVDRSGN VHHQFQKLLT EFNKSTDAYE
LKIANKLFGE KTYLFLQ EYL DAIKKFYQTS VES<u>V</u>DFANAP EESRKKINSW
VESQTN EKIK NLĮP<u>E</u>G<u>N</u>IG<u>S</u> <u>N</u>TTLVLVNAI YFKGQWE<u>K</u>KF <u>N</u>KE<u>D</u>TKEEKF
WPNK NTYKSI QMMRQY<u>T</u>SF<u>H</u> FA<u>S</u>LEDVQAK VLEIPYKGKD LSMIVLLPNE
IDGLOK LEEK LTAEKLMEWT SLQNMRET<u>C</u>V DLHLPRFK<u>M</u>E ESYDLKDTLR
TMGMV<u>N</u>IFNG DADLSGMT<u>W</u>S <u>H</u>GL<u>SVSK</u>VLH KAFVEVTEEG <u>Y</u>EAAAA TAVV
<u>VVELSSP</u>ST N EEF<u>H</u>CNHPFL FFIRQNKTNS ILFYGRFSSP

FIG. 5

REPLACEMENT SHEET 6/9

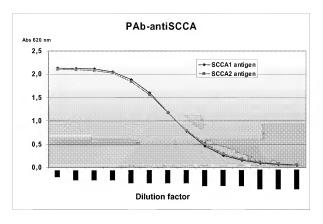


FIG. 6

REPLACEMENT SHEET 7/9

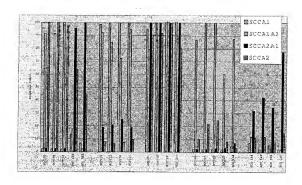
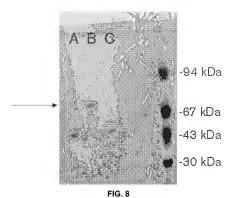


FIG. 7

REPLACEMENT SHEET 8/9



REPLACEMENT SHEET 9/9

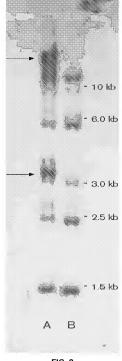


FIG. 9